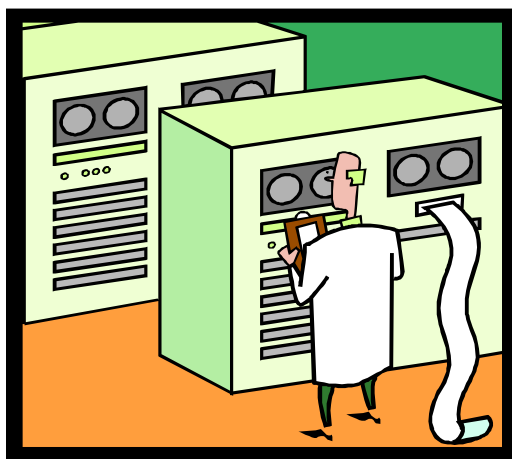




Data Driven Decision Making





Outline

- Information Needs
- Tools
 - M2
 - CDIS
 - MCFAS
 - RM Websites





Information Needs

Key business programs being implemented in the MHS:

- Next Generation of TRICARE Contracts
- Business Plans
- Output Driven Resource Allocation (ODRA)



Information Needs

- Next Generation Contracts

- Revised Financing
- MTFs “at risk” for purchased care for their enrollees
- MTFs pay monthly invoices to MCS Contractors



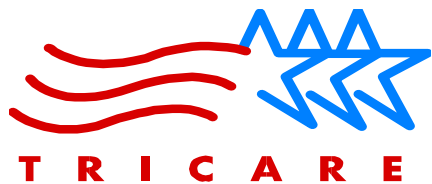


Information Needs

- Business Plans



- MTFs project workload and enrollment
- Business plans are “valued”
- Performance is monitored against projections

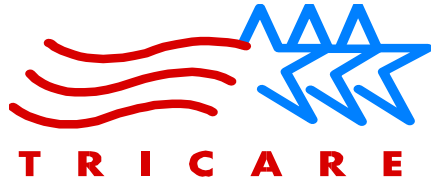


Information Needs

- ODRA



- Prospective Payment, based on enrollment
- MTFs pay bills for care provided to their enrollees, regardless of point of service
- MTFs receive fee for service payments for care they provide for anyone else



Information Needs

- Basic business questions to be centered around enrollment
 - Who is enrolled? Who isn't who should be?
 - How much does it cost to care for an enrollee?
 - What services should I provide to enrollees? What should I buy?
 - Who should I buy from?
 - Are the invoices I am receiving correct?



Information Needs

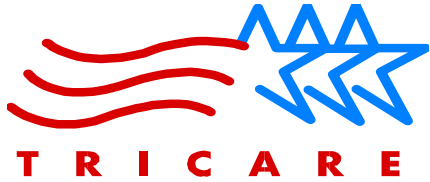
- Mix of patients in an MTF is important.
- Understanding of costs to provide and purchase services is also important
 - Market area planning/management.
 - MTFs need to access local pricing information
 - Care downtown, care at other MTFs (eventually).





Information Overload





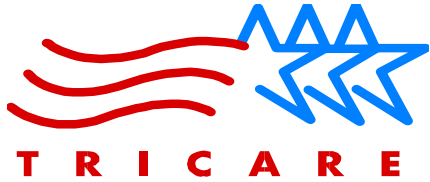
Basic Data Flows

- Operational Systems
 - Core business systems, data capture
 - Real time, system downtime highly undesirable
 - **Data Extracts** provided to other systems, in lieu of massive “in place” querying.
- Notes:
 - Operational Systems are not generally used by “corporate” for decision-making
 - Key strength is in real-time availability of data
 - Weakness is in scope of data



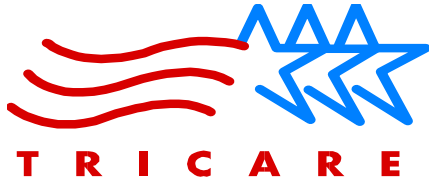
Operational Systems

- Key Operational Systems:
 - DEERS: Eligibility and Enrollment
 - CHCS/ADM: MTF operations
 - TMA-A: TRICARE Claims (downtown care)
 - PDTS: Rx Records
- Operational Systems provide routine extracts to “end user systems” (generally through a corporate data warehouse)



Systems

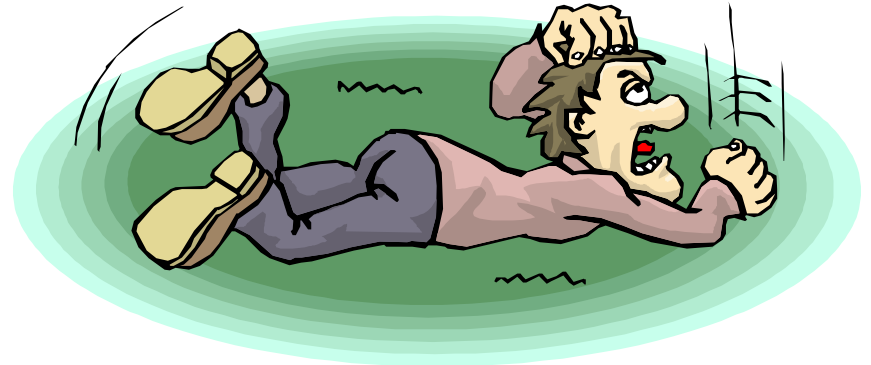
- Advantages of using “end user applications” for data access:
 - Removes burden of excessive querying on operational systems
 - Can receive data from numerous sources, allows for a more holistic view of business
- Disadvantage:
 - Not generally real time.

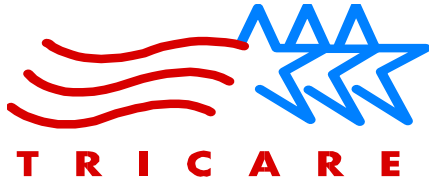


End User Systems



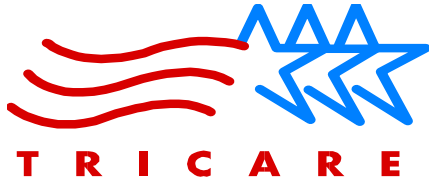
- Buzzword: Data Mart
- Data Marts contain data from operational systems (local and central)
- Systems where users access data
 - Canned Reports
 - Files, where users write customized queries
- MHS has both types of data marts





Data Marts

- Three important data marts:
 - MHS Mart (M2): All purpose data mart; decision support
 - Care Detail Information System (CDIS): Claims history system. Meant for tracking individual claims
 - Managed Care Forecasting and Analysis System (MCFAS): Population projections and enrollment forecasting tool



M2

M2: General “Data Mart”

- One stop shop for most management decision making needs
- Contains data from many key systems
 - MTFs
 - DEERS
 - TMA-Aurora
 - PDTS
 - Functional Proponents





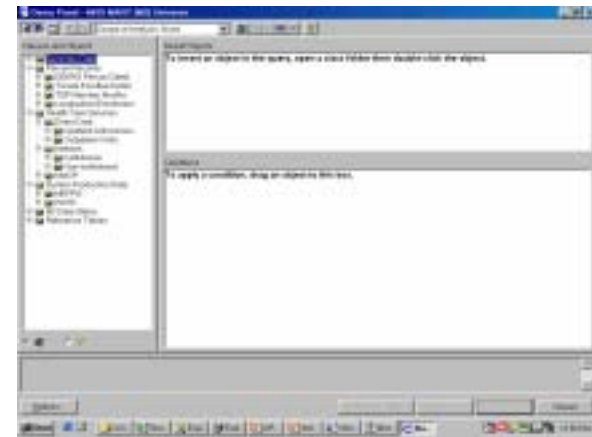
- [illegible]

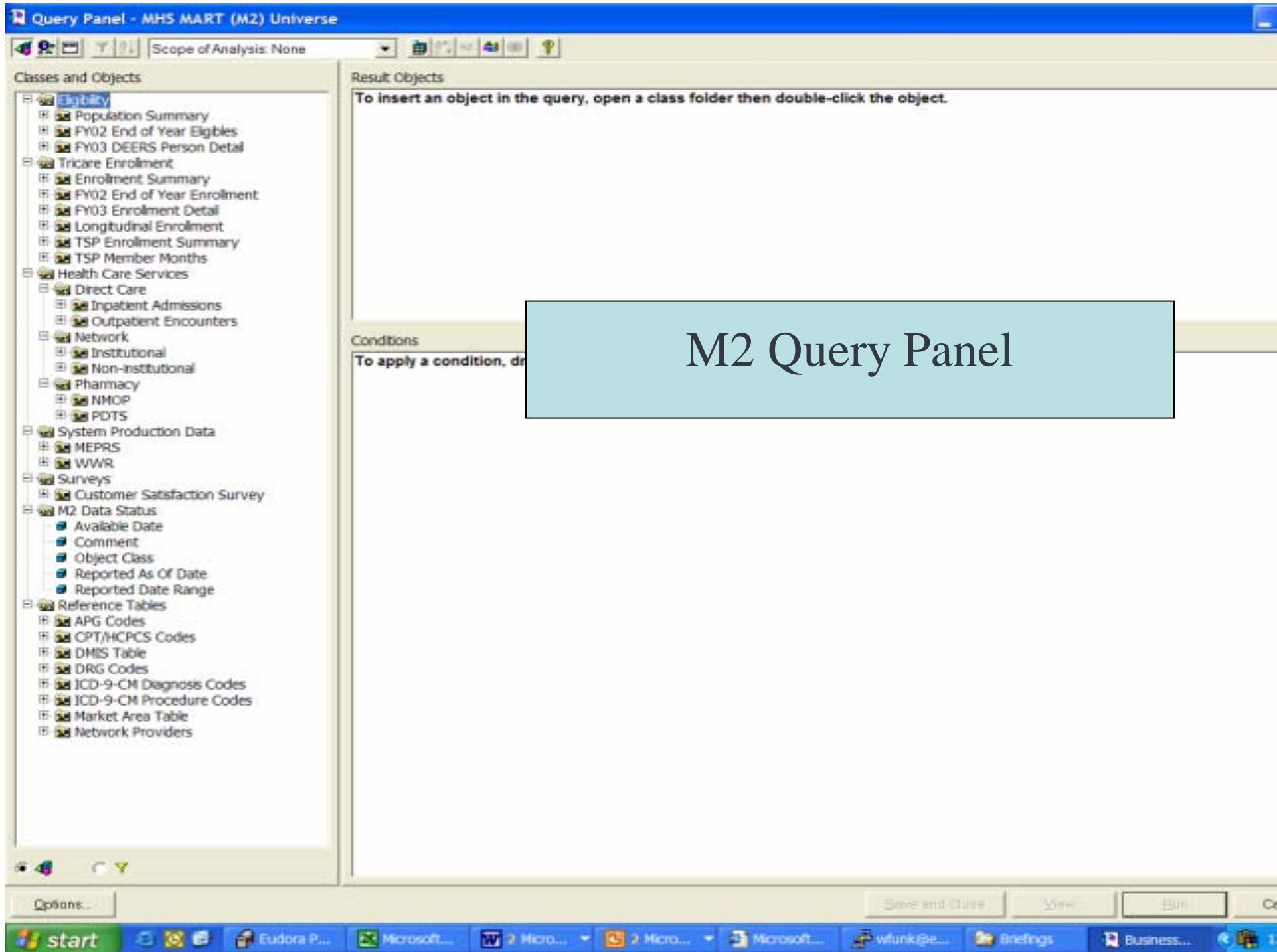


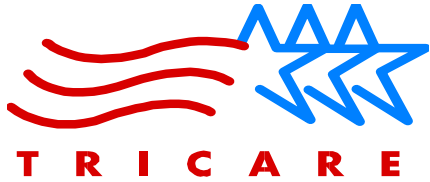
M2

M2: General “Data Mart”

- M2 contains data files, organized into directories
- Data Dictionary:
 - Excel, one tab per file
 - Definitions
 - List of valid values
- Data Status Table:
 - Table in M2
 - Describes timing of files available in the system
 - Lists known data quality problems for each file







M2

-
- Users build reports in M2 by:
 - Opening up a query panel
 - Selecting data elements to return in the report
 - Constructing “filters”
 - Trick is to choose the right files and filters!





M2

M2 Standard Reports

- Major organizations can name “report writers”
- HA, TMA, Lead Agent/TRO, Services
- Report writers “post” reports on M2
- Users can view, run and modify reports to suit their needs.

**TMA will be posting standard reports
to assist with managing under the new contracts





Standard Reports

Retrieve

You use this dialog box to retrieve documents from the repository. Right-click on document(s) for additional commands.

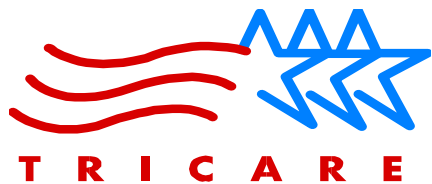
☐ Show only this category of documents: <No Category>

| Name | Categories | Owner | Schedule | Submission Date | Size | Type |
|--|------------|----------|----------|------------------|--------|-----------|
| tma.ops.rm.tnex.hcsr.inv.rep | TMA | TMAPUB12 | No | 8/28/2003 09:... | 194560 | Corporate |
| tma.ops.rm.tnex.enr.rep | TMA | TMAPUB12 | No | 8/28/2003 09:... | 110080 | Corporate |
| TMA.HPA&E.Inpatient SADR Performance.rep | TMA | TMAPUB11 | No | 7/24/2003 06:... | 283648 | Corporate |

☒ Open on Retrieval

Help

- Resource Management reports begin with “tma.ops.rm.tnex.*”.
- Double click to open report.
- As reports are posted, information will be made available through TMA/RM Website, describing content.



M2

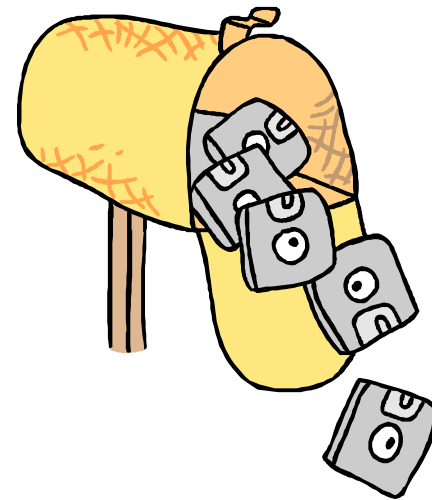
-
- WISDOM:
 - Week Long Course
 - M2, MHS Data
 - Decision Making
 - Detailed instruction
 - Bi-monthly, SATX and DC

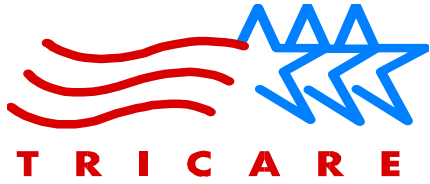




Quick Overview of M2 Data

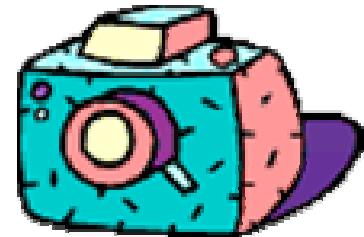
- Eligibility
- Enrollment
- Health Care Services
- PDTS
- Data Status





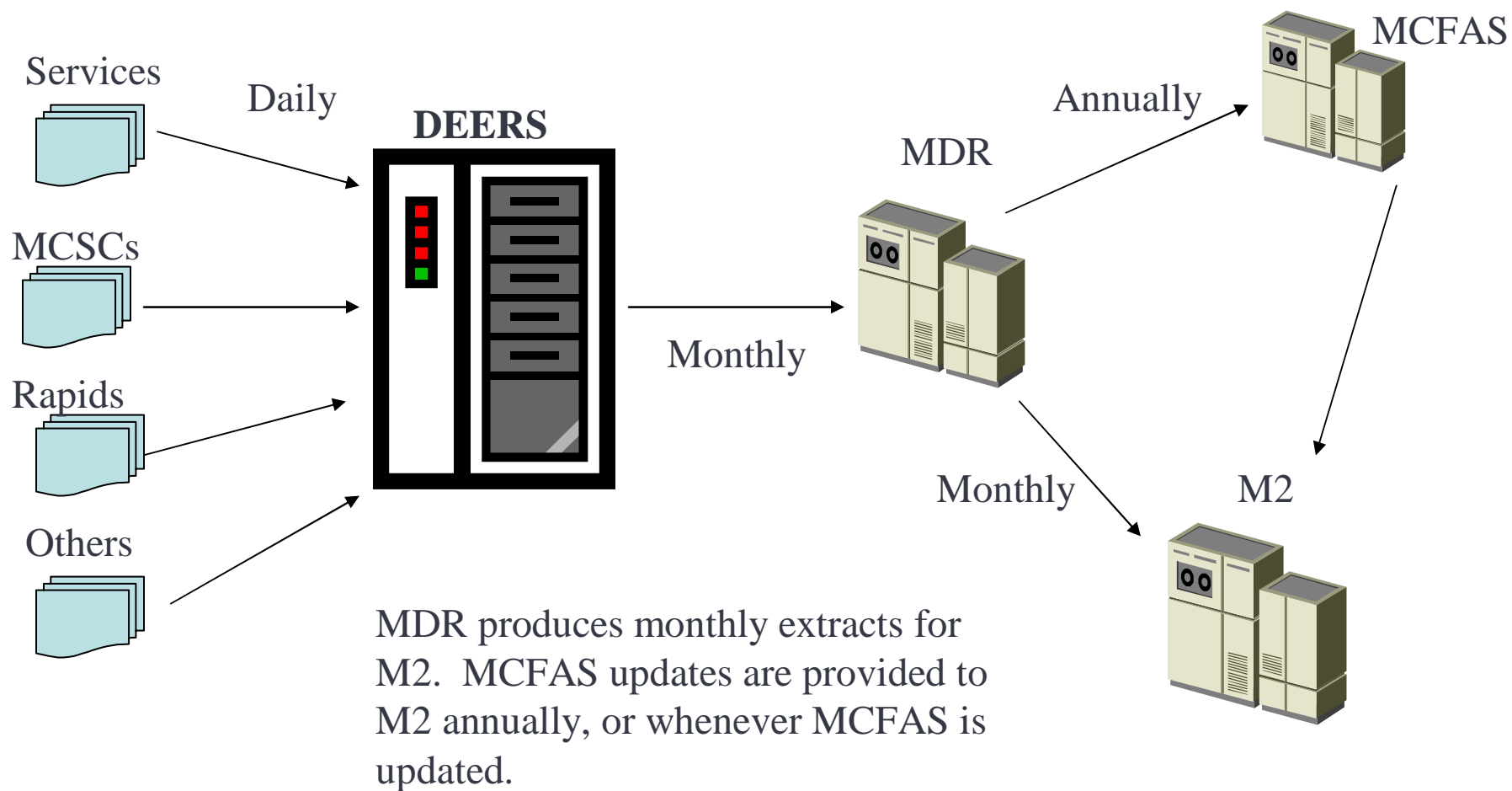
DEERS

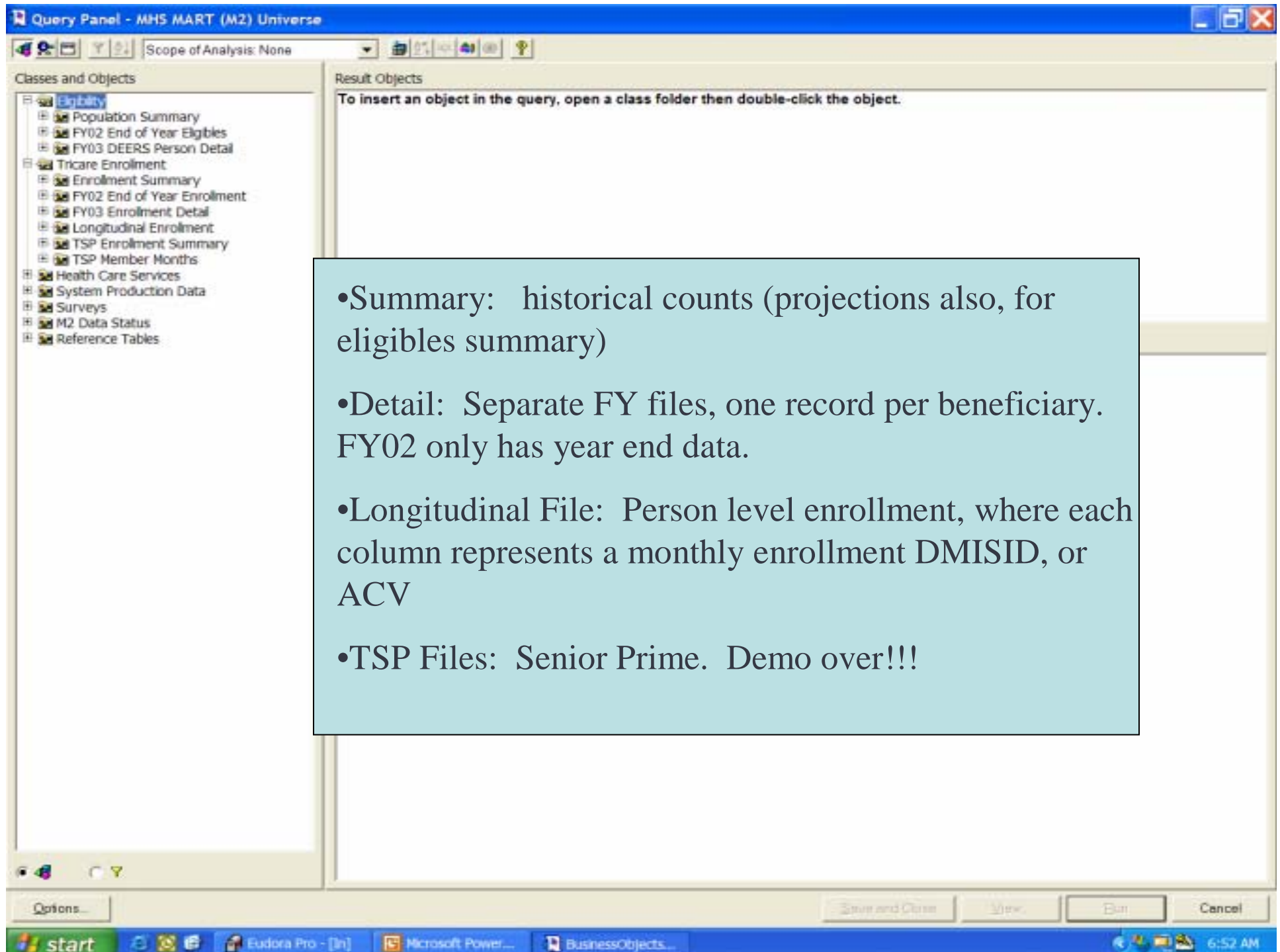
- Source for eligibility and enrollment files is DEERS
 - Numbers in DEERS change minute to minute
 - DEERS sends a snapshot, depicting beneficiary status at a “point in time”
 - The year/month in the data files represent the “point in time”





DEERS Data Flow







DEERS Data

- Eligibility -- Summary file:
 - FY97 forward, monthly data
 - Missing some months from FY00 related to start up of new DEERS system.
- Eligibility -- Detail files:
 - Separate fiscal year files
 - FY02, year end
 - FY03+, all available months



Classes and Objects

- [-] Eligibility
 - [-] Population Summary
 - Beneficiary Count
 - Age Group Code
 - Beneficiary Category
 - Beneficiary Country Code
 - Beneficiary Region
 - Beneficiary Zip Code
 - BPA Catchment Area ID
 - *BPA Catchment Area Name
 - Catchment Area ID
 - *Catchment Area Name
 - *Catchment Area Command
 - *Catchment Area Military Service
 - Catchment Area ID of Record
 - FM
 - FY
 - Gender
 - Market Area ID
 - PRISM Area ID
 - *PRISM Area Name
 - *PRISM Area Command
 - *PRISM Area Military Service
 - PRISM Area ID of Record
 - Privilege Code
 - Sponsor Service, Aggregate
 - FY02 End of Year Eligibles
 - FY03 DEERS Person Detail
- [-] Tricare Enrollment
- [-] Health Care Services
- [-] System Production Data
- [-] Surveys
- [-] M2 Data Status
- [-] Reference Tables

Result Objects

To insert an object in the query, open a class folder then double-click the object.

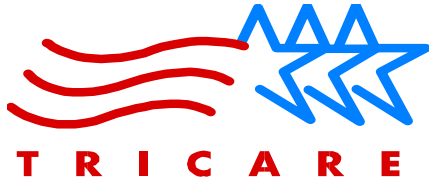
Conditions

To apply a condition, drag an object to this box.



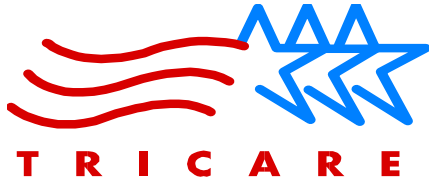
DEERS Data

- Fields in the summary file:
 - FY/FM
 - Bencat (AD, Guard, ADFM, Guard FM, Retirees, Retiree FM, Survivors, Others)
 - Location Info: Zip Code, Catchment and PRISM Area, Region, Country
 - Demographics: Age Group Code, Gender and Sponsor Service
 - Privilege Code (DC, CHAMPUS, Medicare)



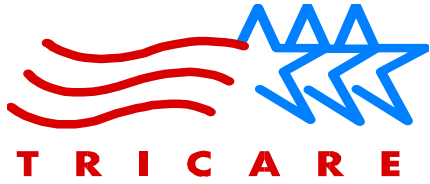
DEERS Data

- Some sample questions you can answer with the summary:
 - How many people live near me?
 - How much has my guard/reserve population grown since 9/11?
 - What is the MHS eligible population in a zip code?
 - How many pediatric-age beneficiaries are there out there?



DEERS

-
- Detail files are available for more specific queries
 - Very large files – longer run times
 - Person level
 - More detailed fields
 - Unit, Eligibility Data, Person Data (e.g. dob), coming soon: enrollment status
 - (Enrollment data also stored in a separate folder)



DEERS Data

- Enrollment -- Summary file:
 - FY98 forward, monthly data
 - Many non-standard fields, redesign of file will add new standard content!
- Enrollment -- Detail files:
 - Separate fiscal year files
 - FY02, year end
 - FY03+, all available months



Classes and Objects

- Eligibility
- Tricare Enrollment
 - Enrollment Summary
 - Capitation Amount
 - Enrollee Count
 - Equivalent Lives
 - ACV
 - Age Group Code
 - Ben Cat Common
 - Cap Rate
 - Catchment Area ID of Record
 - *Catchment Area Name
 - *Catchment Area Command
 - *Catchment Area Military Service
 - Enrollment Site
 - Enrollment Site Name
 - Enrollment Site Command
 - Enrollment Site Military Service
 - Enrollment Site Region
 - Enrollment Site Parent
 - Enrollment Site Parent Name
 - Equivalent Lives Age Group
 - Equivalent Lives Ben Group
 - Equivalent Lives Factor
 - FM
 - FY
 - Gender
 - Market Area ID
 - PRISM Area ID of Record
 - *PRISM Area Name
 - *PRISM Area Command
 - *PRISM Area Military Service
 - Privilege Code, Aggregate
 - Population Sector
 - Sponsor Service, Aggregate
 - FY02 End of Year Enrollment
 - FY03 Enrollment Detail
 - Longitudinal Enrollment
 - TSP Enrollment Summary
 - TSP Member Months
- Health Care Services
- System Production Data
- Surveys
- M2 Data Status
- Reference Tables

Result Objects

To insert an object in the query, open a class folder then double-click the object.

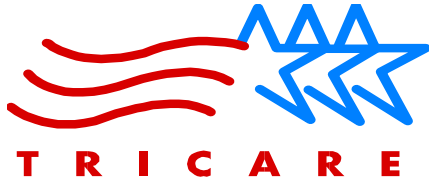
Conditions

To apply a condition, drag an object to this box.



DEERS Data

- Fields in the summary file:
 - FY/FM
 - Bencat (non-standard field, incorporates service branch, in a funny way!)
 - Enrollment DMIS ID, Alternate Care Value
 - “Equivalent Lives” categories, counts
 - Enrollment Counts



DEERS Data

- Some sample questions you can answer with the summary:
 - Who is enrolled to me? In Prime?
 - How many TRICARE Plus enrollees do I have?
 - How has my enrollment changed over time?
- Details, details:
 - Detail file has person level data and more available fields.

es and Objects

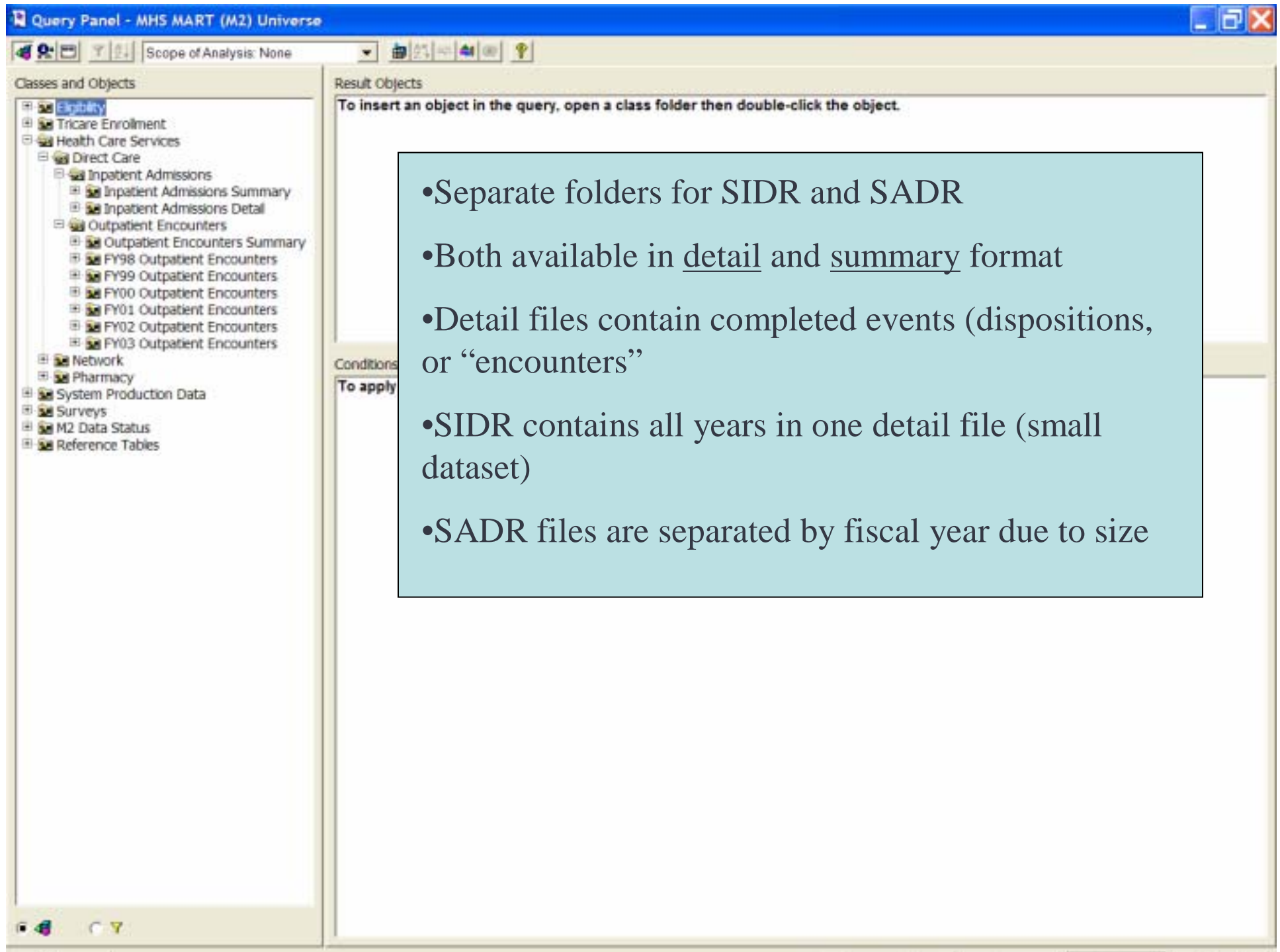
- Eligibility
- Tricare Enrollment
- Health Care Services
 - Direct Care
 - Network
 - Pharmacy
- System Production Data
- Surveys
- M2 Data Status
- Reference Tables

Result Objects

To insert an object in the query, open a class folder then double-click the object.

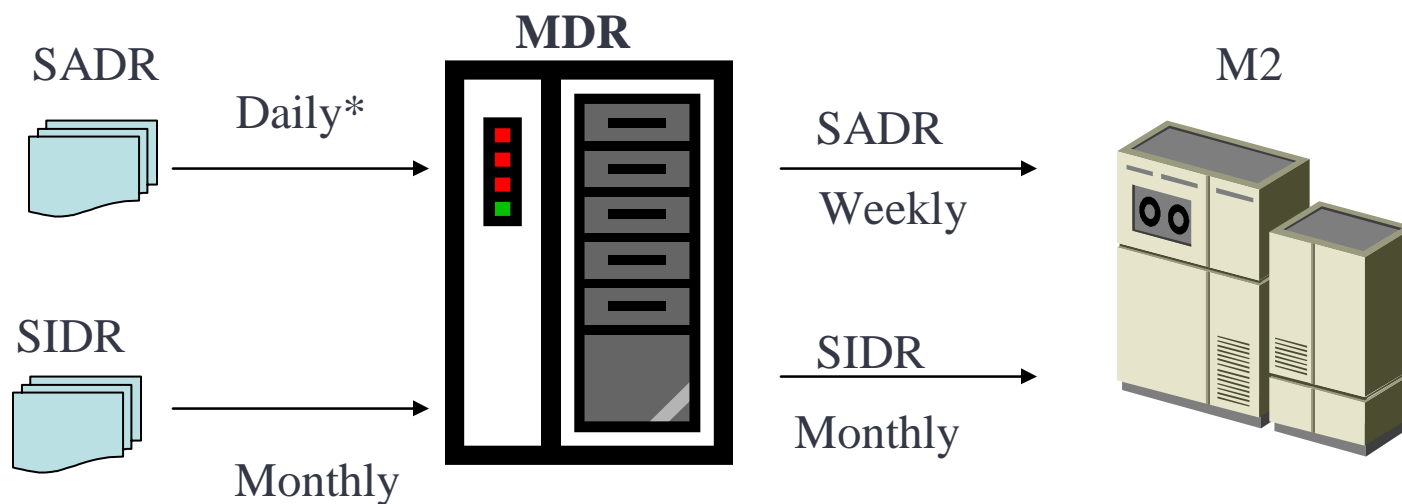
Health Care Services Folder:

- Records about health care
- Direct Care: SIDR/SADR Records
- “Network”: HCSR (misnomer, contains all claims, not just network)
- Pharmacy: PDTS
- Detail and Summary files available.

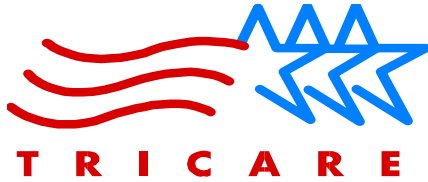




Direct Care Data Flow



MDR produces extracts for M2. The SIDR files are updated monthly, the SADR files are updated weekly.



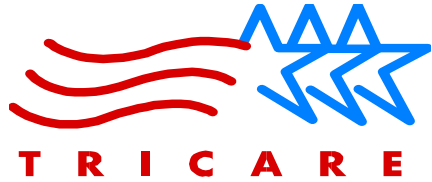
Direct Care Data

- Both SIDR/SADR originate from CHCS -- many common fields
 - Beneficiary Category, Sponsor Service
 - Enrollment Data (DMIS ID, ACV)
 - Zip Code, Catchment Area, PRISM Area, Region
 - MEPRS Code(s), Diagnosis Codes
 - Patient Identifiers
 - Full and Variable Cost Estimates



SIDR/SADR Fields

| Information | SIDR | SADR |
|-----------------|----------|---------------|
| Px Codes | ICD-9 CM | CPT |
| Classifications | DRG (1) | APG (Many) |
| Weights | RWP | APG/RVU |
| Provider | | Specialty, ID |



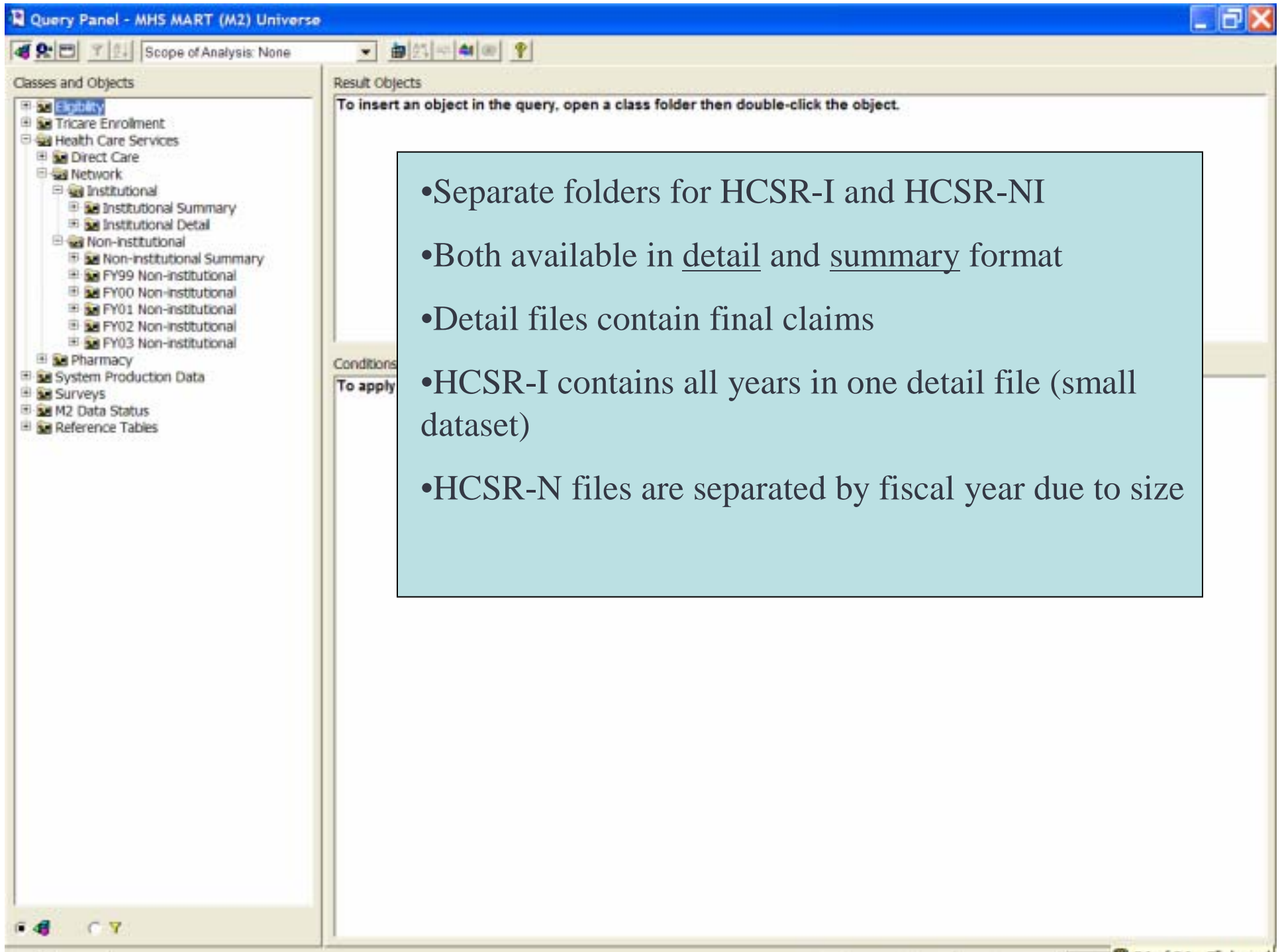
SIDR/SADR

- Some sample questions you can answer with the SIDR/SADR files:
 - What types of services am I providing? To whom?
At what cost?
 - Which providers produce the most workload?
 - Am I seeing other MTF's prime, when I could be seeing my own? Where are my patients coming from?



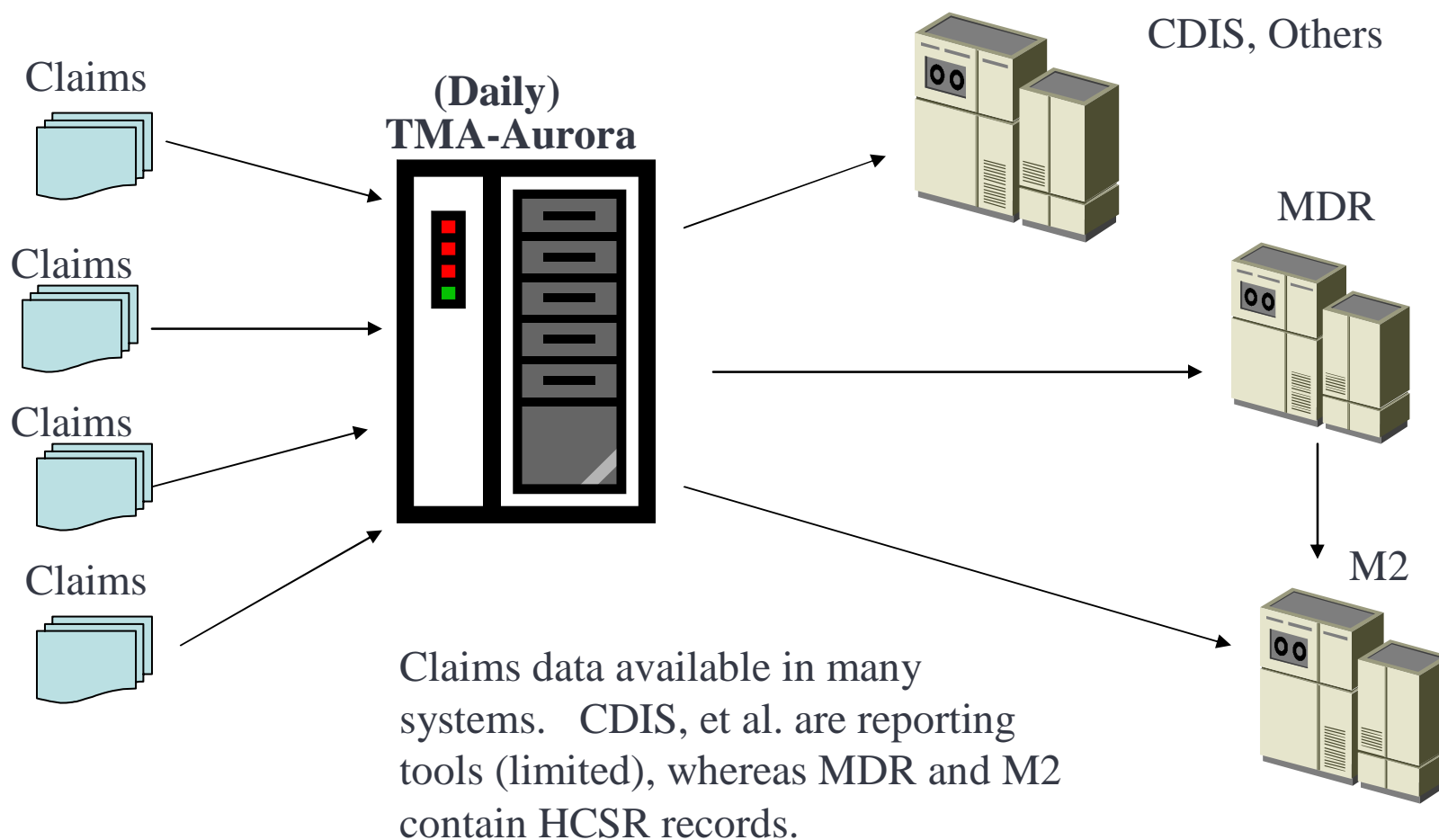
Health Care Services Network

- “Network” file contains TRICARE Claims
- Not limited to those from network providers
- Only final version of claim posted in M2.
- Two types of claims records:
 - Institutional (hosp)
 - Non-Institutional (prof, office vis, rx, etc)
- Not split by inpatient/outpatient, but by who submitted the claim. Some questions require querying both tables!





Claims Data Flow

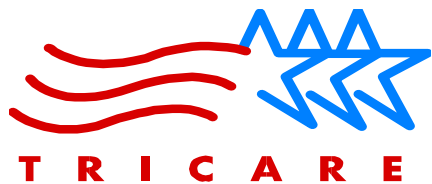




Claims data

- HCSR Fields

- Beneficiary Category, Sponsor Service (caution)
- Enrollment Data (DMIS ID, Enr. Status)
- Zip Code, Catchment Area, PRISM Area, Region
- Provider Location/ID
- Diagnosis Codes
- Patient Identifiers
- Cost/Charge Data



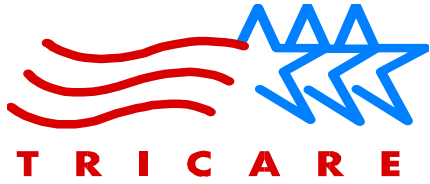
HCSR Fields

| Information | HCSR-I | HCSR-NI |
|-----------------|----------|--------------------|
| Px Codes | ICD-9 CM | CPT |
| Classifications | DRG (1) | N/A |
| Weights | RWP | RVU |
| Provider | ID, Zip | ID, Zip, Specialty |



Claims data

-
- Additional fields are available to help discern types of care/claims:
 - Special Processing Codes
 - Place of Service
 - Type of Service
 - Type of Institution



HCSR

-
- Some sample questions you can answer with the HCSR files:
 - What's leaking downtown?
 - How much does it cost to buy a service downtown?
Are some providers cheaper than others?
 - Are there providers downtown that do particular procedures?
 - Where are my enrollees getting care?



Other Important M2 Data

- Pharmacy Data Transaction Service:



- Rx records for all DHP funded prescriptions (except paper claims from downtown).
- One record per fill
- Demographics (including enrollment), Provider, Drug and Cost Information



PDTS

-
- Some sample questions you can answer with the PDTS files:
 - Where are my patients coming from? Are my enrollees getting prescriptions filled at my MTF (where it costs me the least)?
 - Of my enrollees with a particular condition (say heart attack patients), who needs a particular prescription



Other M2 Data

- MEPRS – Tri-Service Financial data
 - Costs, workload and “staff”
 - Summary data only
 - MEPRS does “work center” level costing
 - MEPRS Code, Treatment DMIS ID
 - Updated monthly





Other M2 Data

- Worldwide Workload Report (WWR)
 - Monthly MTF workload data
 - Raw counts
 - Inpatient: Dispositions, Admissions and Days
 - Ambulatory: Count Visits
 - MTF, MEPRS Code, Bencat, FY and FM





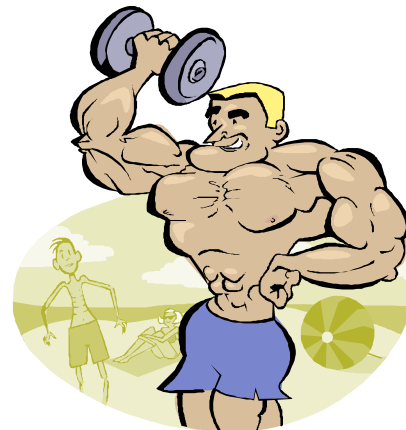
Coming Soon!

-
- Next M2 Change Package to include “ODRA” data
 - “Earnings” to be added to SIDR, SADR and PDTS reflecting ODRA value for each record
 - “Capitation rates”
 - Equivalent Lives
 - Will allow MTFs to monitor actual earnings compared with capitation rates



RE-CAP of M2

- Many significant files in M2
- Standard reports are there for users who don't want to remember all the tricky business rules
- But users have the flexibility to create their own queries as well!





M2 Re-Cap

- Major benefit in using M2 is it's ability to look across the various sources.....
 - Costs per member per month
 - Utilization rates (disps per 1000 enrollees)
 - Population Health (who needs a beta blocker, etc)
 - What will it cost to send enrollees to another MTF, vs. sending downtown.....





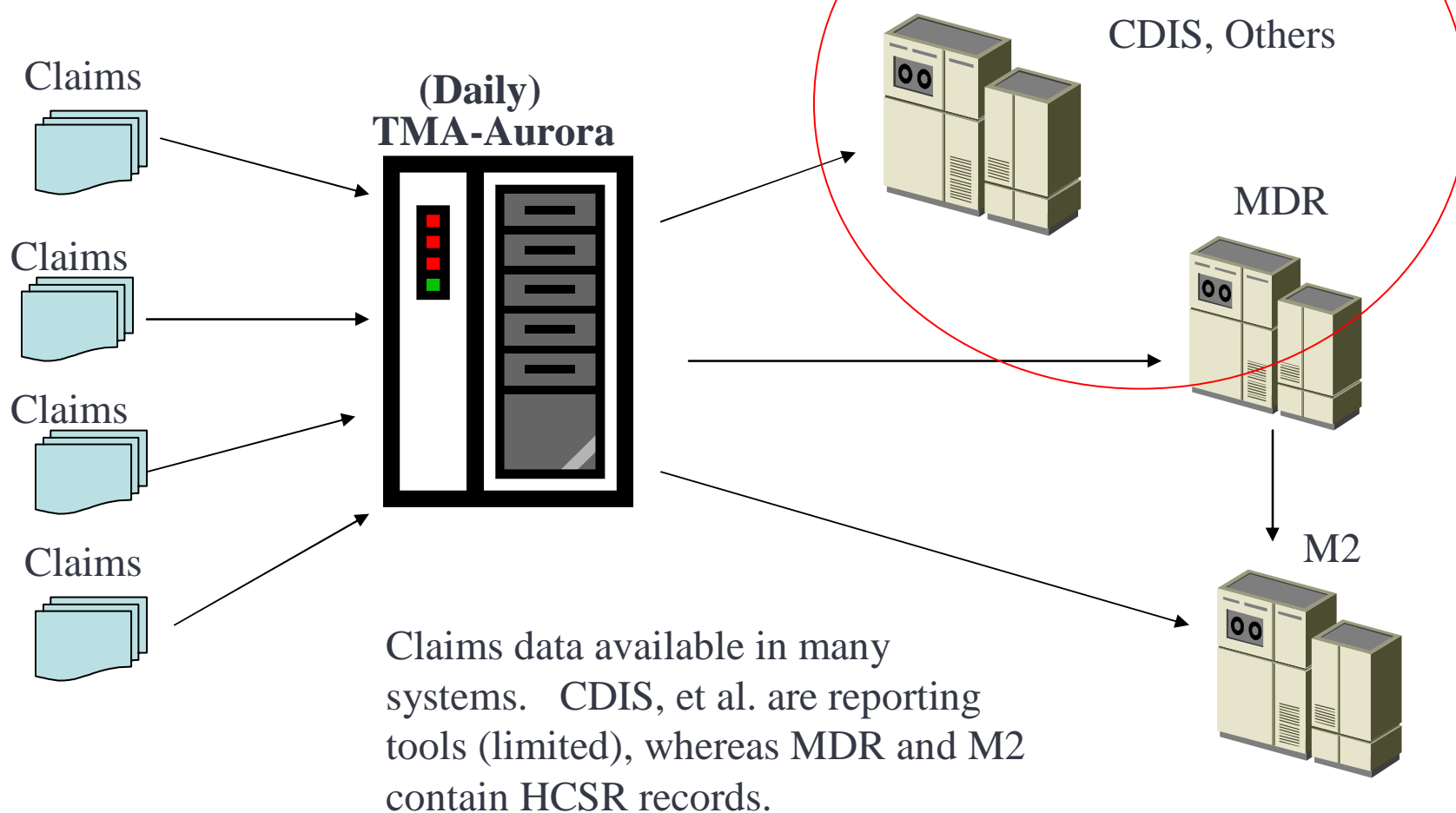
M2 Re-Cap

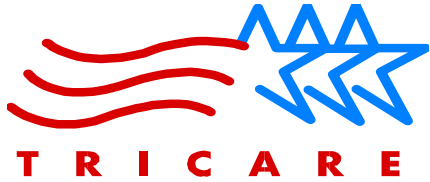
- Will address most business questions... except....
 - Real time needs (local systems)
 - Very specific questions (local systems/sources)
 - MTF Ancillaries (local systems)
 - Claims Histories





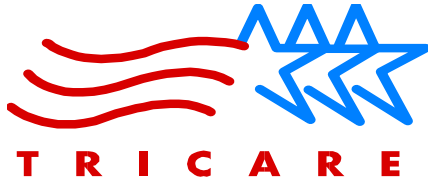
Claims Data Flow





CDIS

- CDIS allows for viewing of individual claims on real time basis
- Includes history of claim – while M2 only contains most recent version!
- M2 will allow for reconciliation of most claims (those that weren't adjusted)
- CDIS claim history can help to assess claims where the invoice amounts might be different than data displayed in M2.



CDIS

-
- HCSR No. (TED No.) – assigned by the contractor in claims adjudication process
 - Invoices, M2 claims data, and CDIS all use the same “key”
 - CDIS doesn’t work for querying large numbers of claims! Need to use M2 for that.....



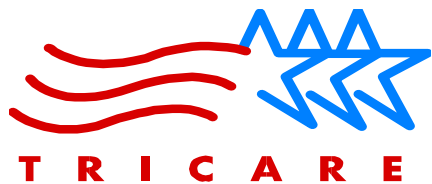
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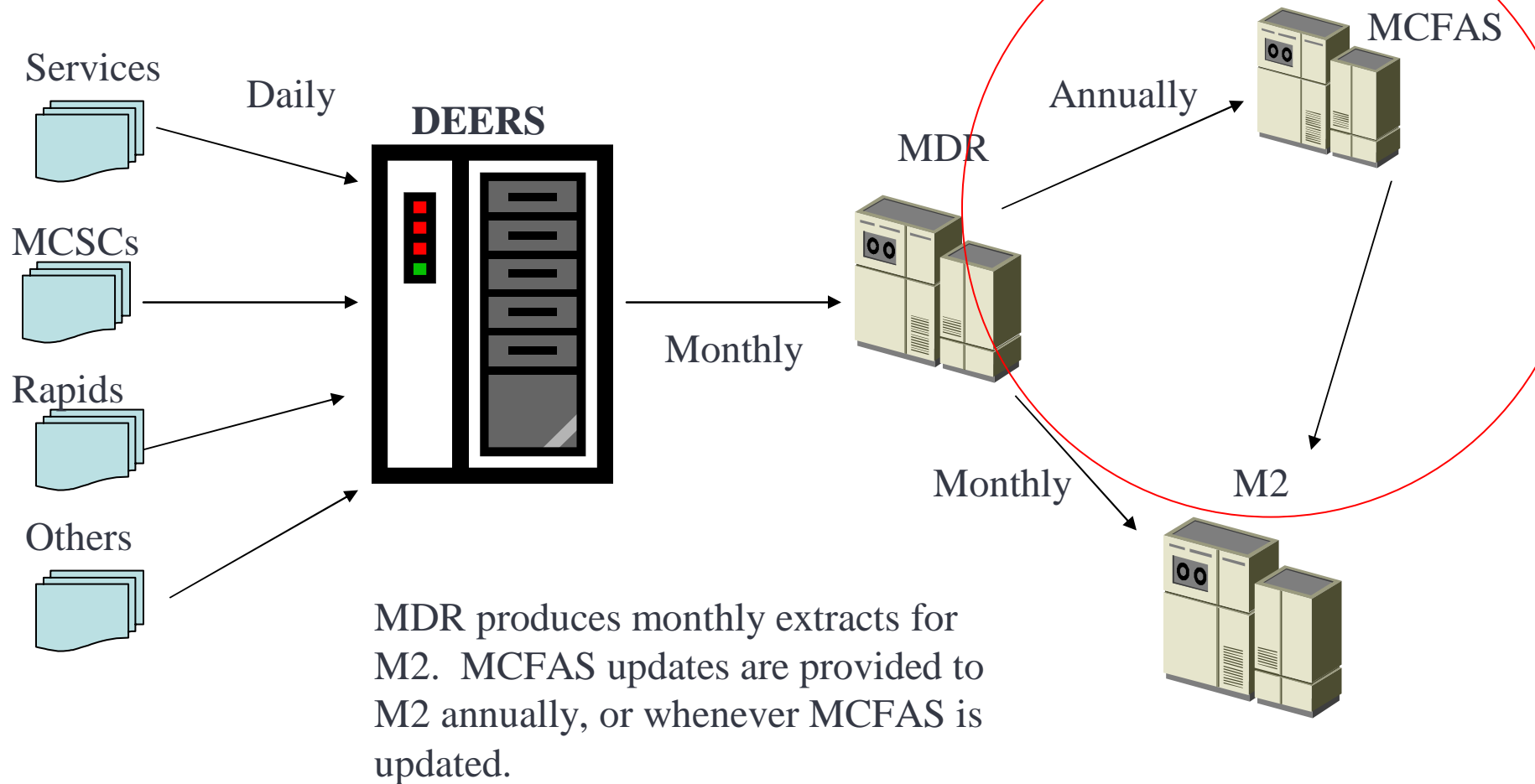


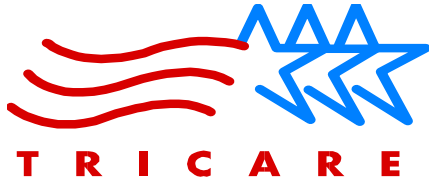
MCFAS

-
- Managed Care Forecasting Analysis System
 - Population projection system
 - Built for resource management community
 - Primarily intended for budgeting, but used for many purposes
 - M2 contains projected MCFAS data also!



DEERS Data Flow





MCFAS

-
- MCFAS also provides a tool for projecting enrollment
 - There are no canned projections, though!
 - Users enter information about staffing, etc, and then enrollment capacities are projected



Websites

- TMA/RM websites
 - Two separate sites
 - Being consolidated onto one server
 - Provides tools to assist in managing under next generation of contracts!
- Purchased Care visibility reports (EBC Site)
 - Inpatient/Outpatient, Pharmacy, Supp Care and Resource Sharing



Purchased Care Website

- Claims/Invoice reconciliation reports
- https://199.211.84.37/Purchased_care/
- Daily Ad-hoc reporting
 - See all PC costs for patient enrolled at YOUR facility (within 24 hours of receipt of TED info by TMA)
- End-of-month reconciliation
 - Determine amount of expected billings



Purchased Care Website

- Downloadable reconciliation files providing ability to lookup patient level information by claim
- Data represent actual expenditures recorded in TMA PC accounting system
 - Costs would be paid by facility if currently operating under TNEX contract methodology

DMIS ID RECONCILIATION REPORT - CHILD DMIS ID REPORT

RUN DATE: 07-OCT-2003 - RUN TIME: 04:34

CHILD DMIS ID: 0037REGIONS: ALL REGIONS
PROGRAMS: ALL PROGRAMS**Click on MTF Name for
additional drill down**

| MONTH | DMIS ID | MTF NAME | BILL TO | TOTAL |
|--------------------|---------|---------------------------------|---------|-----------------------|
| October | 0037 | WALTER REED ARMY MEDICAL CENTER | ARMY | \$166,465.33 |
| November | 0037 | WALTER REED ARMY MEDICAL CENTER | ARMY | \$157,349.21 |
| December | 0037 | WALTER REED ARMY MEDICAL CENTER | ARMY | \$165,428.91 |
| January | 0037 | WALTER REED ARMY MEDICAL CENTER | ARMY | \$111,905.39 |
| February | 0037 | WALTER REED ARMY MEDICAL CENTER | ARMY | \$46,233.11 |
| March | 0037 | WALTER REED ARMY MEDICAL CENTER | ARMY | \$53,388.66 |
| April | 0037 | WALTER REED ARMY MEDICAL CENTER | ARMY | \$133,407.47 |
| May | 0037 | WALTER REED ARMY MEDICAL CENTER | ARMY | \$140,277.74 |
| June | 0037 | WALTER REED ARMY MEDICAL CENTER | ARMY | \$183,917.23 |
| July | 0037 | WALTER REED ARMY MEDICAL CENTER | ARMY | \$145,486.34 |
| August | 0037 | WALTER REED ARMY MEDICAL CENTER | ARMY | \$198,275.86 |
| September | 0037 | WALTER REED ARMY MEDICAL CENTER | ARMY | \$102,688.39 |
| GRAND TOTAL | | | | \$1,604,823.64 |

[PURCHASED CARE HOME](#) | [DMIS ID RC HOME](#) | [PRIOR YEAR DATA](#) | [DMIS ID DIRECTORY](#) | [COMMENTS](#) | [EMAIL SUPPORT](#)

DMIS ID RECONCILIATION REPORT - SUMMARY BY REGION

RUN DATE: 07-OCT-2003 - RUN TIME: 04:35

FOR ACCOUNTING PERIOD: OCTOBER - 2003

PROGRAMS: ALL PROGRAMS

REGIONS: ALL REGIONS

FACILITY: WALTER REED ARMY MEDICAL CENTER
DMIS ID: 0037

[.XLS](#) [.TXT](#) [PRINT](#)

| DMIS ID | SPONSOR BOS | BENEFICIARY | BILL TO | AMOUNT |
|--------------------|---------------------|---------------|---------|---------------------|
| 0037 | Army | Active Duty | ARMY | \$91,386.24 |
| 0037 | Army | Family Member | ARMY | \$48,956.76 |
| 0037 | Army | Retiree | ARMY | \$3,950.00 |
| 0037 | Air Force | Active Duty | ARMY | \$508.77 |
| 0037 | Navy | Active Duty | ARMY | \$18,055.80 |
| 0037 | USCG | Active Duty | ARMY | \$22.64 |
| 0037 | PHS | Active Duty | ARMY | \$1,003.76 |
| 0037 | Army National Guard | Active Duty | ARMY | \$2,456.96 |
| 0037 | Air National Guard | Active Duty | ARMY | \$124.40 |
| GRAND TOTAL | | | | \$166,465.33 |

THIS REPORT SHOWS THE TOTAL COST FOR A MTF PER SPONSOR BRANCH OF SERVICE

